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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,251	10/04/2005	Mitsuru Kitada	050631	6446

23850 7590 09/18/2007
KRATZ, QUINTOS & HANSON, LLP
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Suite 400
WASHINGTON, DC 20005

EXAMINER

MATOCHIK, THOMAS L

ART UNIT	PAPER NUMBER
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1709

MAIL DATE	DELIVERY MODE
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09/18/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/552,251

Applicant(s)

KITADA ET AL.

Examiner

Thomas Matochik

Art Unit

1709

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 10/04/2005.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date, _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Kitada et.al (US 2002/0077413).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claim 1: Kitada teaches a water dispersion of a polyurethane resin obtained from an organic polyisocyanate - (A) (¶'s 0020-0026) and an aromatic carboxylate containing polyester polyol - (B). The polyester polyol is obtained from condensing phthalic acid (commonly known as the ortho isomer) (¶ 0031) with a polyol (¶ 0030). Kimada teaches the use of a polyisocyanate crosslinking agent - (D) (¶ 0061) The dispersion contains 5-30% by weight of the polyester polyol (¶ 0038). Further, Kitada teaches the incorporation of a polyether polyol containing 20-50% by weight of an

Art Unit: 1709

aromatic, cyclic structural unit (¶ 0058-polyoxypropylene polycyclic phenyl ether). This material is a liquid at room temperature.

Regarding claim 2: Kitada teaches that the urethane/urea units should be between 1 and 100% by weight based the total resin content. This would encompass the 1-4 moles per 1000 g of resin in the instant (¶ 0066).

Regarding claim 3: The limitations for claim 1 have been met by selection of the polyether polyol (B-2). The polyester compound is not considered.

Regarding claim 4: Kitada teaches the incorporation of a polypropylene adduct of a polynuclear phenolic compound (¶ 0058-polyoxypropylene polycyclic phenyl ether).

Regarding claim 5: Kitada teaches the dicarboxylic acid used in the condensation reaction with the polyisocyanate to form the polyurethane resin can be any of phthalic acid, terephthalic acid and isophthalic acid (¶ 0031). If a single phthalic acid is used to form the polyurethane polyol, then it will comprise 100 mole % of the total acid content.

Regarding claim 6: Kitada teaches the incorporation of a polypropylene adduct of a polynuclear phenolic compound (¶ 0058-polyoxypropylene polycyclic phenyl ether) is added to the polyurethane resin solution after the resin is formed. It is not bonded to the resin (¶ 0059, line 9).

Regarding claim 7: Kitada teaches using a polyisocyanate crosslinking agent (¶ 0061).

Correspondence

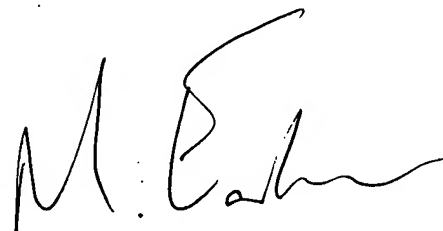
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas Matochik whose telephone number is 571-270-3291. The examiner can normally be reached on Monday-Friday 7:30 AM-5:00 PM.

Art Unit: 1709

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TLM
09/12/2007



MARK EASHOO, PH.D.
SUPERVISORY PATENT EXAMINER

17 / Sep / 07